

DEGREE PROGRAM TITLE: AIRCREW SAFETY SYSTEMS TECHNOLOGY

AFSC(S): 1P0X1, Aircrew Flight Equipment

PROGRAM GOAL: The goal of the **CCAF Aircrew Safety Systems Technology Degree Program** is to prepare graduates for productive careers in the aerospace and manufacturing industries, with special emphasis on management, inspections, maintenance, fabrication, assembly of personnel survival equipment, emergency evacuation systems, aircrew life support, and chemical warfare defense equipment. The program is designed to develop effective leaders of our most valued resource—our people—and cultivate managers of complex systems, processes, and technologies essential to the Air Force and our Nation.

LEARNING OUTCOMES: Upon completion of this program students will be able to:

1. Demonstrate a thorough understanding of parachutes, emergency evacuation systems, thermal radiation barriers, protective covers, flotation equipment and protective clothing.
2. Operate, maintain, adjust, and inspect, survival and life support equipment machinery, test equipment and tools.
3. Disassemble, assemble, inspect, clean, fabricate, repair, and pack, fabric and rubber components, including protective clothing, upholstery, thermal radiation barriers, protective covers, flotation equipment, emergency evacuation systems, aircrew life support equipment, chemical defense equipment, and various parachutes such as deceleration, cargo, and personnel.
4. Evaluate and process work-orders for local manufacturing, plans layout and fabrication of new items; evaluate data involving equipment development and modifications resolving life support and chemical defense equipment problems.
5. Install, remove, inspect, test, and set, manual and automatic rip cord release opening devices.
6. Conduct aircrew life support and chemical defense equipment training classes by instructing aircrews on equipment use, theory of operation, and capabilities.
7. Effectively teach aircrew techniques such as evasion procedures, emergency egress, combat survival procedures, environmental hazards and other survival actions.
8. Identify and document equipment and personnel training discrepancies, and recommend corrective actions.
9. Store, handle, use and dispose of hazardous waste and materials in accordance with environmental standards.
10. Plan, direct, organize and evaluate aircrew life support operational aspects such as equipment accountability, personnel reliability, mobility readiness, and other activities necessary to meet operational readiness.